

Application: 10/516,746
IDS Filed: July 18, 2007
Inventor: RITCHEY, Jonathan G.
Docket Number: 266438.00009

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Page 1, lines 27 and 28 :

"The distillation function is carried out with a still comprising a solar furnace and a condenser separated from the solar furnace."

Page 2, lines 16 to 18:

"Advantageously, the condenser (11) is oriented with respect to the solar furnace (3) such that its front face (12) reflects the sun rays toward the solar furnace (3)"

Page 3, line 38 and 39:

Advantageously, the solar furnace (3) can be oriented such that it's top face remains normal with respect to incident sun rays"

Page 4, line 4 (partially) and 5:

"The condenser (11) remains bound with or act in the same manner than the solar furnace during its movement".

Claim 1:

"A device allowing recuperation of water contained in atmosphere in the form of vapor or fog, characterized in that the device uses the reversible absorption properties of water, in the state of vapor or liquid, of some chemical compounds such as, for instance, lithium bromide, lithium chloride, calcium bromide or calcium chloride, as well as the capacity of a solar still to release the water fixed by these compounds."

Claim 2:

"Device according to claim 1 comprising a solar still equipped with a furnace characterized in that, between the interior of said furnace and the ambient air is circulating, either continuously or intermittently, a layer of fabric impregnated with an absorbing chemical compound such as lithium bromide, lithium chloride, calcium bromide or calcium chloride."

Claim 3:

"Device according to claim 1 or 2, characterized in that it functions continuously, the absorption of atmospheric water vapor being carried out simultaneously to water production."

Claim 5:

"Device according to claim 1, 2, 3 or 4, characterized in that the apparatus can be oriented toward the sun, and follow the relative movement of the sun either manually or automatically."

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Claim 6:

"Device according to claim 1, 2, 3 or 4, characterized in that the apparatus can be oriented toward the sun, and follow the relative movement of the sun either manually or automatically via an equatorial base."

Claim 9:

"Device according to claim 1, 2, 3, 4, 5, 6, 7 or 8, characterized in that the solar still comprises a condenser cooled by ambient air."